

CLAIMS

1. A digital subscriber card (ISC1, ..., ISC16) for a telecommunication network including integrated services digital exchanges (LEC) and data switches (FRN),

5 characterized in that it includes:

- first means (4) for concentrating on $n \times 64$ kbit/s data links Internet frames from a plurality of digital subscriber lines (L1, ..., L128) before routing them to a data switch (FRN), and
- second means (2, 5, 6) for receiving an instruction supplied by a call processor (CP) and for controlling the first means (4) so as to concentrate Internet frames and transmit them in a virtual circuit routing them to a data switching center (FRN) when said second means receive an instruction to that effect.

2. A subscriber card according to claim 1, characterized in that the first means include a concentrator (4) for concentrating a plurality of data channels conforming to the HDLC protocol.

3. A subscriber card according to claim 1, characterized in that it further includes carrier detect and collision resolution (CSMA-CR) type backplane interface circuit (3) coupled to the first means (4) and coupled to a bus (B2) connecting a plurality of subscriber cards.

4. A subscriber unit (SU) for a telecommunication network including integrated services digital exchanges (LEC) and data switches (FRN), characterized in that it includes at least one digital subscriber card (ISC1, ..., ISC16) according to any of claims 1 to 3.

5. A subscriber unit according to claim 4, characterized in that it further includes second

concentrator means (FHC) for concentrating Internet frames already concentrated by first means (4) [call processor means (CP), characterized in that its call processor means] belonging respectively to a plurality of 5 digital subscriber cards (ISC1, ..., ISC16) according to any of claims 1 to 3.

6. A subscriber unit (SU), characterized in that it includes concentrator means (FHC) for concentrating Internet frames from a plurality of analog subscriber 10 lines.

7. An exchange (LEC) adapted to be connected to at least one subscriber unit (SU) according to any of claims 4, 5 and 6 and including call processor means (CP), characterized in that its call processor means (CP) 15 includes means for controlling Internet frame compression means (4) on digital subscriber cards (ISC1, ..., ISC128) according to any of claims 1 to 3.

8. A switching center (SW; ATMS) connected to a data transmission network (FRN; ATMN) and including call processor means (CP'; CP'') and a switch matrix (SM; AM), characterized in that it further comprises an Internet router (RT'; RT'') and in that the call processor means (CP'; CP'') include means for controlling the matrix (SM; AM) so that calls to an Internet service provider pass 25 through the router.

9. A subscriber unit connected to a data transmission network (FRN; ATMN) and including a switch matrix (SM; AM), characterized in that it further includes an Internet router (RT'; RT'') and in that the matrix can be 30 controlled so that calls to an Internet service provider pass through the router.

10. A switching center (SW) connected to a data

transmission network (FRN) and including call processor means (CP") and a switch matrix (SM), characterized in that it further includes a plurality of modems (MD₁, ..., MD_m) and in that the call processor means (CP') include means for controlling the matrix (SM) so that calls set up between analog subscriber terminals and an Internet service provider pass through the modems.

11. A subscriber unit connected to a data transmission network (FRN) and including a switch matrix (SM),
10 characterized in that it further includes a plurality of modems (MD₁, ..., MD_m) and in that the switch matrix can be controlled so that calls set up between analog subscriber terminals and an Internet service provider pass through the modems.